

Please amend the paragraph on page 9, lines 1-9 as follows:

In this context, PM1 denotes point mutation 1 and has the following sequence (the amino acids which are replaced as compared with Ph1 p 5b are printed in bold):

ADAGYAPATPAAAGAAAGKATTEEQKLIEDIDVGFKAAVAAAASVPAALA									
1	10	20	30	40	50				
FKTFEAAFTSSSKAAAAKAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFV									
51	60	70 8	80	90	100				
ASLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAA									
101	110	120	130	140	150				
TAAATAPADDKFTVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAA									
151	160	170	180	190	200				
TVAAAPQVKYAVFEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAG									
201	210	220	230	240	250				
AASGAATVAAGGYKV (SEQ ID NO 83)									
251	250 255	-							

Please amend the paragraphs beginning on page 9, line 10 through page 10, line 16 as follows:

The other particularly preferred peptides have the following sequences:

ADAGYAPATPAAAGAAAGKATTEEQKLIEDINVGFKAAVAAAASVPAALA 1 10 20 30 FKTFEAAFTSSSKAAAAKAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFV 51 60 70 80 ASLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAA 101 110 120 130 140 TAAATAPADDKFTVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAA 170 180 190 TVAAAPQVKYAVFEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAG 210 220 230 240 AASGAATVAAGGYKV (SEQ ID NO 89) 251 260 265 PM3 $(A^{13} \rightarrow C)$: ADAGYAPATPAACGAAAGKATTEEQKLIEDINVGFKAAVAAAASVPAADK 20 30 FKTFEAAFTSSSKAAAAKAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFV 60 70 80 ASLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAA 101 110 120 130 140 TAAATAPADDKFTVFEAAFNKAIKESTGGAYDTYKCIPSLEAAVKQAYAA 151 160 170 180 190 200 TVAAAPQVKYAVFEAALTKAITAMSEVQKVSQPATGAATVAAGAATTAAG 201 210 220 230 240 250 AASGAATVAAGGYKV (SEQ ID NO 90) 251 260 255 DM1 ($\Delta K^{50} \rightarrow P^{\Delta 132}, D^{49} \rightarrow L$): ADAGYAPATPAAAGAAAGKATTEEQKLIEDINVGFKAAVAAAASVPAALA 1 10 20

PM2 $(D^{43} \rightarrow L, K^{sc} \rightarrow A)$:

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GELQIIDKIDAAFKVAATAAATAPADDKFTVFEAAFNKAIKESTGGAYDTYK 0.6 CIPSLEAAVKQAYAATVAAAPQVKYAVFEAALTKAITAMSEVQKVSQPATG . 120 AATVAAGAATTAAGAASGAATVAAGGYKV (SEQ ID NO 91) DM 2 ($\Delta F^{51} - G^{173}, D^{49} - L, K^{50} - A$): ADAGYAPATPAAAGAAAGKATTEEQKLIEDINVGFKAAVAAAASVPAALA GAYDTYKCIPSLEAAVKQAYAATVAAAPQVKYAVFEAALTKAITAMSEVQK

Please amend the paragraph on page 11, lines 2 through lines 12 as follows: This sequence corresponds to that of DM2 where, however, the amino acids of

(SEQ ID NO 92)

VSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV

positions 179-217 of the starting peptide Ph1 p 5b additionally exhibit an altered sequence and all the subsequent amino acids are missing.

DM3 (
$$\Delta$$
 A¹⁵⁴ - T¹⁷⁷, A²²⁰ \rightarrow T):

ADAGYAPATPAAAGAAAGKATTEEQKLIEDINVGFKAAVAAAASVPAADK

1 10 20 30 40 50

FKTFEAAFTSSSKAAAAKAPGLVPKLDAAYSVAYKAAVGATPEAKFDSFV

51 60 70 80 90 100

ASLTEALRVIAGALEVHAVKPVTEEPGMAKIPAGELQIIDKIDAAFKVAA

TAAGGAYDTYKCIPSLEAAVKQAYAATVAAAPQVKYAVFEAALTKTITAMS

EVQKVSQPATGAATVAAGAATTAAGAASGAATVAAGGYKV (SEQ ID NO 93)

Please amend the paragraph on page 28, lines 3 through lines 48 as follows:

Tab. 1: Dodecapeptides which are based n the Ph1 p 5b sequence and which are used

1	ADAGYAPATPAA		44	KIPAGELQIIDK	
2	GYAPATPAAAGA	(SEQ ID NO 1)	45	AGELQIIDKIDA	(SEQ ID NO 44)
3	PATPAAAGAAAG	(SEQ ID NO 2)	46	LOIIDKIDAAFK	(SEQ ID NO 45)
4	PAAAGAAAGKAT	(SEQ ID NO 3)	47	IDKIDAAFKVAA	(SEQ ID NO 46)
5	AGAAAGKATTEE	(SEQ ID NO 4)	48	IDAAFKVAATAA	(SEQ ID NO 47)
6	AAGKATTEEQKL	(SEQ ID NO 5)	49	AFKVAATAAATA	(SEQ ID NO 48)
7	KATTEEOKLIED	(SEQ ID NO 6)	50	VAATAAATAPAD	(SEQ ID NO 49)
a -	TEEQKLIEDINV	(SEQ ID NO 7)	51	TAAATAPADDKF	(SEQ ID NO 50)
9	QKLIEDINVGFK	(SEQ ID NO 8)	52	ATAPADOKETVE	(SEQ ID NO 51)
10	IEDINVGFKAAV	(SEQ ID NO 9)	53	PADDKFTVFEAA	(SEQ ID NO 52)
11	INVGFKAAVAAA	(SEQ ID NO 10)	54	DKFTVFEAAFNK	(SEQ ID NO 53)
12	GFKAAVAAAASV	(SEQ ID NO 11)	55	TVFEAAFNKAIK	(SEQ ID NO 54)
13	AAVAAAASVPAA	(SEQ ID NO 12)	56	EAAFNKAIKEST	(SEQ ID NO 55)
14	AAAASVPAADKF	(SEQ ID NO 13)	57	FNKAIKESTGGA	(SEQ ID NO 56)
15	ASVPAADKFKTF	(SEQ ID NO 14)	58	AIKESTGGAYDT	(SEQ ID NO 57) (SEQ ID NO 58)
16	PAADKFKTFEAA	(SEQ ID NO 15)	59	ESTGGAYDTYKC	
17	DKFKTFEAAFTS	(SEQ ID NO 16)	60	GGAYDTYKCIPS	(SEQ ID NO 59) (SEQ ID NO 60)
18	KTFEAAFTSSSK	(SEQ ID NO 17)	61	YDTYKCIPSLEA	(SEQ ID NO 61)
19	EAAFTSSSKAAA	(SEQ ID NO 18)	62	YKCIPSLEAAVK	(SEQ ID NO 62)
20	FTSSSKAAAAKA	(SEQ ID NO 19)	63	IPSLEAAVKQAY	(SEQ ID NO 63)
21	SSKAAAAKAPGL	(SEQ ID NO 20) (SEQ ID NO 21)	64	LEAAVKOAYAAT	(SEQ ID NO 64)
22	AAAAKAPGLVPK	(SEQ ID NO 22)	65	AVKQYAATYAA	(SEQ ID NO 65)
23	AKAPGLVPKLDA	(SEQ ID NO 23)	66	QAYAATVAAAPQ	(SEQ ID NO 66)
24	PGLVPKLDAAYS	SEQ ID NO 24)	67	AATVAAAPOVKY	SEQ ID NO 67
25	VPKLDAAYSVAY	(SEQ ID NO 25)	68	VAAAPQVKYAVF	(SEQ ID NO 63)
26	LDAAYSVAYKAA	(SEQ ID NO 26)	69	APQVKYAVFEAA	(SEQ ID NO 69)
27	AYSVAYKAAVGA	(SEQ ID NO 27)	70	VKYAVFEAALTK	(SEQ ID NO 70)
28	VAYKAAVGATPE	(SEQ ID NO 28)	71	AVFEAALTKAIT	(SEQ ID NO 71)
29	KAAVGATPEAKF	(SEQ ID NO 29)	72	EAALTKAITAMS	(SEQ ID NO 72)
30	VGATPEAKFDSF	(SEQ ID NO 30)	73	LTKAITAMSE/Q	(SEQ ID NO 73)
31	TPEAKFOSFVAS	(SEO ID NO 31)	74	AITAMSEVQKVS	(SEQ ID NO 74)
32	AKFDSFVASLTE	(SEO ID NO 32)	75	AMSEVQKVSQPA	(SEQ ID NO 75)
33	DSFVASLTEALR	(SEQ ID NO 33)	75	EVOKVSOPATGA	(SEQ ID NO 76)
34	VASLTEALRVIA	(SEQ ID NO 34)	77	KVSQPATGAATV	(SEQ ID NO 77)
35	LTEALRVIAGAL	(SEQ ID NO 35)	73	QPATGAATVAAG	(SEQ ID NO 78)
36	ALRVIAGALEVH	(SEQ ID NO 36)	79	TGAATVAAGAAT	(SEQ ID NO 79)
37	VIAGALEVHAVK	(SEQ ID NO 37)	80	ATVAAGAATTAA	(SEQ ID NO 80)
38	GALEVHAVKPVT	(SEQ ID NO 38)	81	AAGAATTAAGAA	(SEO ID NO 81)
39	EVHAVKPVTEEP	(SEQ ID NO 39)	82	AATTAAGAASGA	(SEQ ID NO 82)
40	AVKPVTEEPGMA	(SEQ ID NO 40)	28	TAAGAASGAATV	(SEQ ID NO 83)
41	PYTEEPGMAKIP	(SEQ ID NO 41)	84	GAASGAATVAAG	(SEQ ID NO 84)
42	EEPGMAKIPAGE	(SEQ ID NO 42)	85	SGAATVAAGGYK	(SEQ ID NO 85)
43	GMAKIPAGELOI	(SEQ ID NO 43)	86	GAATVAAGGYKV	(SEQ ID NO 86)

Please amend the paragraph on page 31, lines 35 through page 32, lines 7 as follows:

Fragment 1:

Ph1 p 5b sense:

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Phl p 5b sense:
5'-ATATGGATCCATCGAGGGAAGGGCCGATGCCGGCTACGCC-3' (SEQ ID NO 94)
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MP1 antisense:
5'-GAACGCTAGCGCCGCAGGGACGCTGGC-3' (SEQ ID NO 95)

Fragment 2:

MP1 sense:
5'-GCGCTAGCGTTCAAGACCTTCGAG-3' (SEQ ID NO 96)
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Phl p 5b antisense: 5'-ATAT<u>AAGCTT</u>TCCTCTGAAGGAAGGCAACCC-3' (SEQ ID NO 97)

Please amend the paragraph on page 32, lines 30-38 as follows:

The point mutant rPh1 p 5b PM1 was prepared in analogy with PM2. It contains, as the result of a PCR error, an additional point mutation: $N^{32} \rightarrow D$.

In order to clone this point mutant, the entire cDNA for rPh1 p 5b in vector pGS13 was amplified in a PCR using the following primers.